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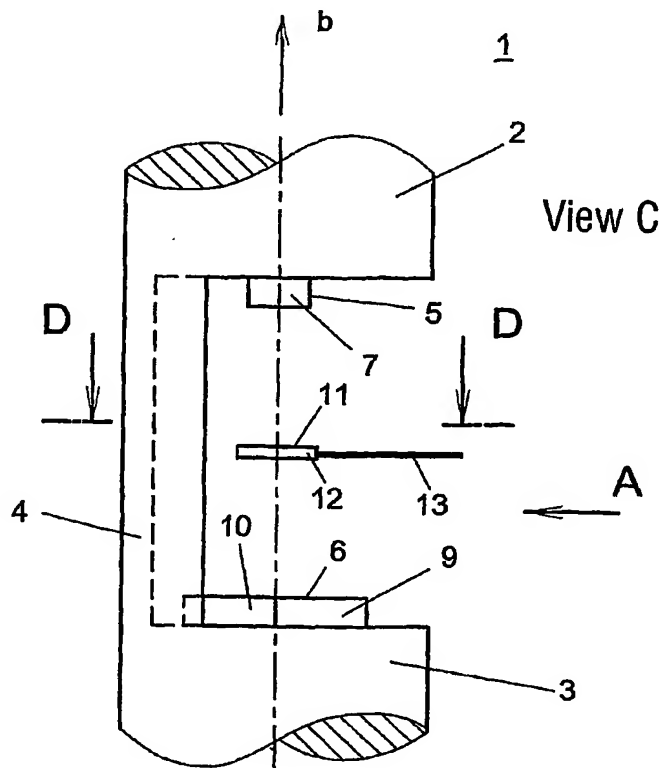
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[Continued on next page]

(54) Title: MAGNETIC POSITION SENSOR



(57) Abstract: What is described is a configuration for determining the position of a body on an at least largely linear motion coordinate, along which two magnetic configurations are disposed, each equipped with at least one pair of magnetic north and south poles, and disposed between the magnetic configurations is a magnetoresistive angle-sensor configuration, which is set up to measure the direction of a resultant magnetic field spanned by the magnetic configurations and extending between them in a measurement plane relative to a spatial reference direction lying in this measurement plane. The motion coordinate is aligned at least largely at right angles to the measurement plane of the magnetoresistive angle-sensor configuration, and magnetic axes of the two magnetic configurations extend essentially parallel to the measurement plane and projections of these magnetic axes onto the measurement plane are aligned to be offset by predetermined angles relative to one another. At least a first of the magnetic configurations is connected to the body and disposed to be mobile, together with the latter, relative to the magnetoresistive angle-sensor configuration along the motion coordinate. As a result, a configuration for determining the position of a body with the aid of an angle sensor in cases of an at least largely linear motion is created.

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A. CLASSIFICATION OF SUBJECT MATTER  
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According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

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## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 132 717 A (MANNESMANN VDO AG) 12 September 2001 (2001-09-12) the whole document	1, 3, 5, 6
A	US 6 433 537 B1 (PETERSEN AUGUST) 13 August 2002 (2002-08-13) the whole document	1, 5-9

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☒ Patent family members are listed in annex.

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